



ICT

YEAR-10

End of Term Assessment (Term 2)

19th March 2024

Duration: 60 minutes

Student Name: _____ Section: _____

Total:	/60
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Objectives to be Assessed	Topics	Question Numbers	Marks for these Questions
AO1 - Knowledge and Understanding	Digital Devices, Software, Networks, Risks to Data and Personal Information	Q2, Q3, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15	26 marks
AO2 - Application of Knowledge and Understanding	Digital Devices, Software, Digital Communication, Networks, Risks to Data and Personal Information	Q1, Q4, Q16, Q17, Q18, Q19, Q20	17 marks
AO3 - Analysis and Evaluation	Digital Communication, Networks, Risks to Data and Personal Information	Q4, Q10, Q16, Q20	8 marks
AO4 - Synthesis and Creativity	Digital Devices, Software, Digital Communication, Networks, Risks to Data and Personal Information	Q3, Q21, Q22	9 marks

Questions

Q1.

Letta arrives at a hotel.

The hotel network manager has administrator privileges.

(i) Explain **one** reason an administrator would use a network operating system to manage users.

(2)

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(ii) Explain **one** reason why the network manager should back up data regularly.

(2)

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(Total for question = 4 marks)

Q2.

Letta uses the Internet for work.

Letta's employer uses hosted applications and storage.

(i) Explain **one** benefit to Letta's employer of doing this.

(2)

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(ii) State the type of computer used to store online software.

(1)

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(Total for question = 3 marks)

Q3.

Kay uses the Internet to work from home.

Complete the description of a secure password.

(2)

A secure password should use a minimum of eight and a mixture
of and

(Total for question = 2 marks)

Q4.

Describe how a CAPTCHA test reduces the function of malware.

(2)

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(Total for question = 2 marks)

Q5.

Ruwan uses a smartwatch when he exercises.

Some data needs to be encrypted when it is transferred.

Describe how encryption helps keep data secure.

(2)

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(Total for question = 2 marks)

Q6.

Ruwan searches online for local sporting events.

Describe how MAC addresses can be used to prevent access to networks.

(3)

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(Total for question = 3 marks)

Q7.

Describe how mobile broadband can be used to provide access to cloud-based services.

(2)

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(Total for question = 2 marks)

Q8.

Describe how pharming is a risk to data.

(2)

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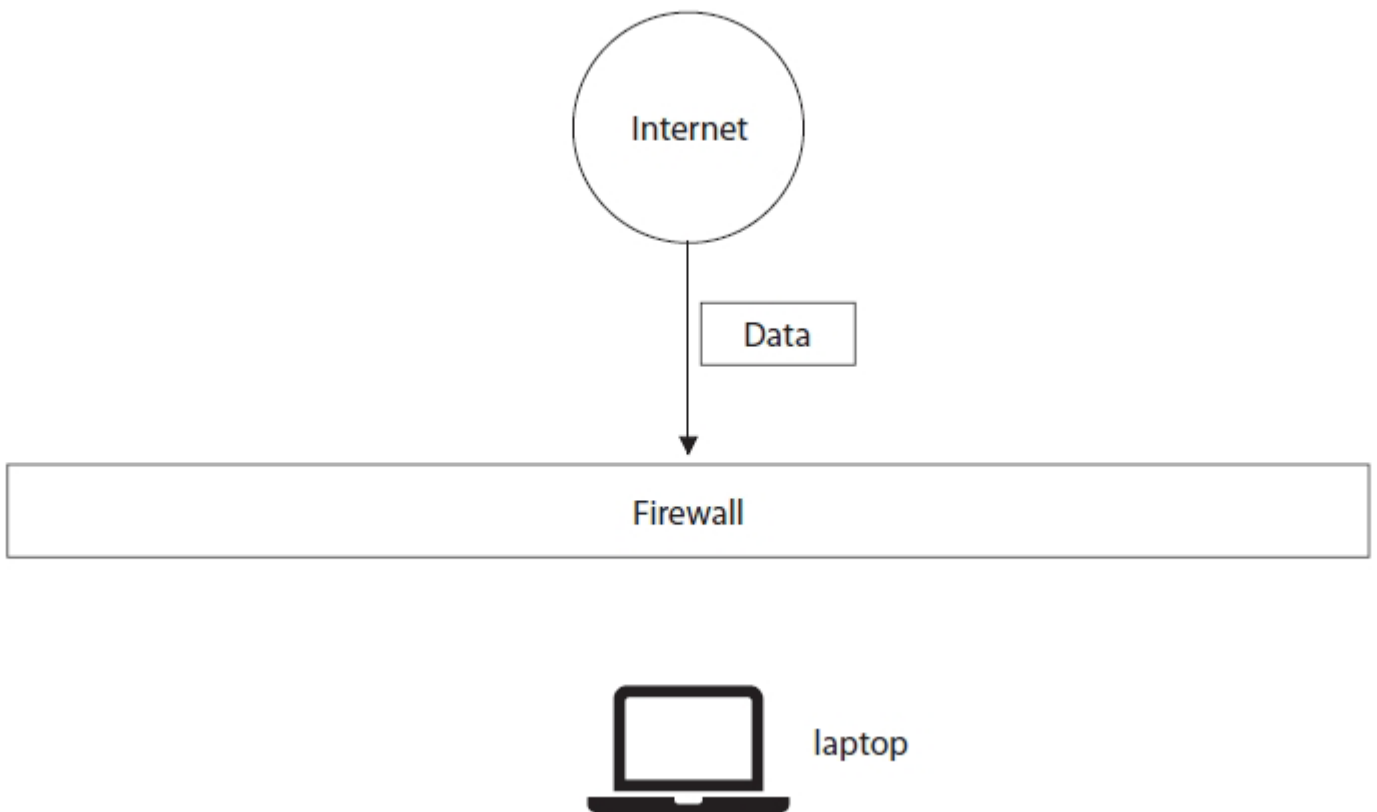
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(Total for question = 2 marks)

Q9.

Kay uses the Internet to work from home.

This diagram shows data sent to a laptop.



Describe how the firewall acts on the data that has been sent to the laptop.

(2)

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(Total for question = 2 marks)

Q10.

Describe how WPA is a more secure protocol than WEP.

(2)

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(Total for question = 2 marks)

Q11.

Hugh creates a website for a band.

Describe **one** method that should be used to secure payment data transferred between Hugh's server and other computers.

(3)

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(Total for question = 3 marks)

Q12.

Hillmart Youth Centre provides a range of services and activities for young people.

The centre has a small network of PCs connected to the internet.

The centre provides an unsecured Wi-Fi connection to the network.

Jasmine often connects her tablet device to the unsecured Wi-Fi network.

Describe **one risk to Jasmine** of using an unsecured wireless network.

(3)

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(Total for question = 3 marks)

Q13.



(Source: © Pearson Asset Library)

Kiki buys a smartphone.

The smartphone has a 4 GHz CPU.

Describe the function of a CPU.

(2)

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(Total for question = 2 marks)

Q14.

Zara uses her tablet computer to watch TV online.

Describe the function of a router.

(2)

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(Total for question = 2 marks)

Q15.

Sachini plays online games on her laptop.

Describe the function of a web browser.

(2)

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(Total for question = 2 marks)

Q16.

Hugh creates a website for a band.

Describe the function of **two** network components that are used to transfer data on the Internet.

(4)

Network component

Function

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Network component

Function

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(Total for question = 4 marks)

Q17.

James teaches in a school that uses a local area network and a wide area network.

The learners use communication software.

Describe the purpose of communication software.

(2)

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(Total for question = 2 marks)

Q18.

Ashan works in an office with a network.

Describe **two** benefits of using a client–server network.

(4)

Benefit 1

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Benefit 2

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(Total for question = 4 marks)

Q19.

James teaches in a school that uses a local area network and a wide area network.

Describe **two** benefits to teachers of using a local area network.

(4)

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- 2
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(Total for question = 4 marks)

Q20.

Zara uses her tablet computer to watch TV online.

Zara streams an online video. She sees the notice shown in **Figure 1**.



Figure 1

Describe what has happened to Zara.

(4)

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(Total for question = 4 marks)

Q21.

Kay works from home.

She uses ICT for business and entertainment.



(Source: © PAL)

Draw **one** straight line from **each** characteristic to the correct hardware.

(3)

Characteristic

Has the largest capacity

Stores applications
while they are in use

Stores instructions
needed to load the
operating system

Hardware

Compact disc

Magnetic disk

Random access memory

Read only memory

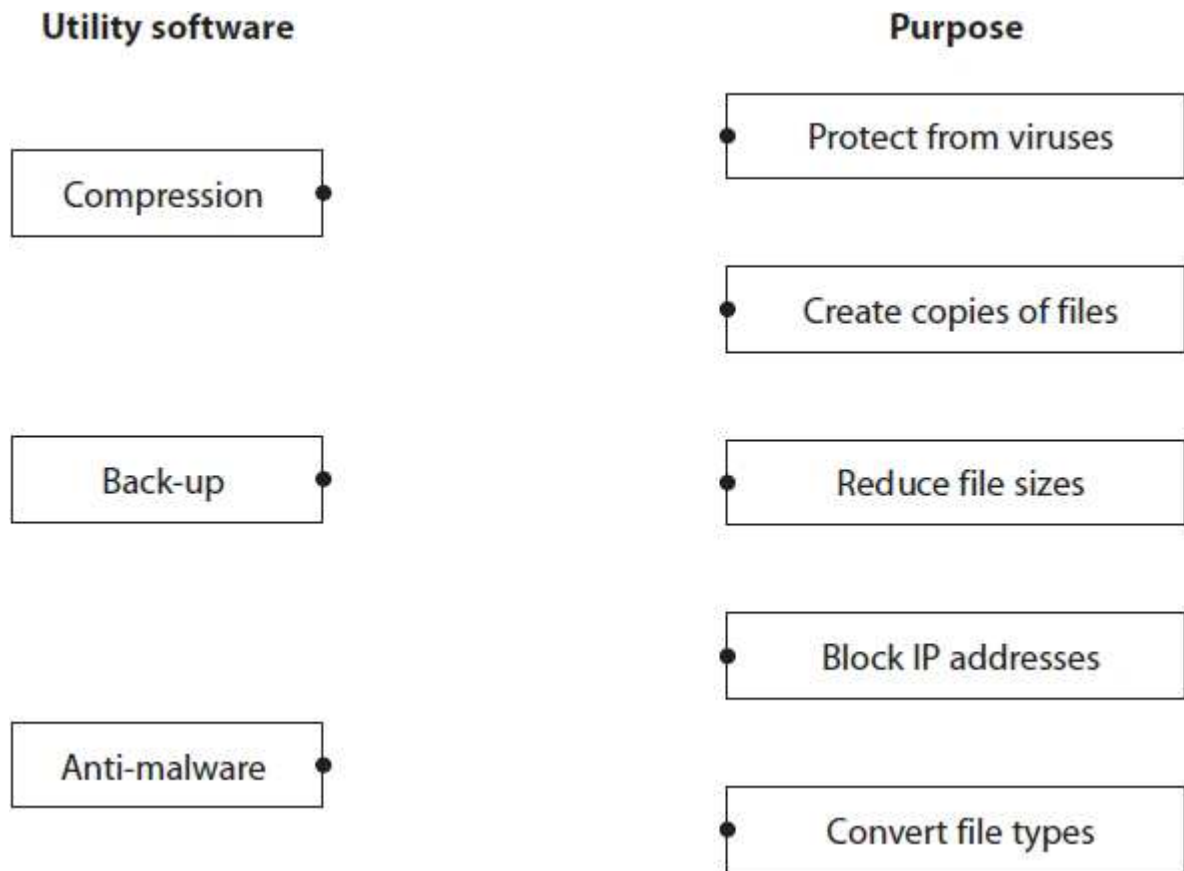
(Total for question = 3 marks)

Q22.

Eunice installs some software on her laptop.

Draw **one** straight line from each example of utility software to the correct purpose.

(3)



(Total for question = 3 marks)